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AZ COR.

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2016 DEC 28 P 2: 23

Attorneys for Electrical District Number Eight and McMullen Valley Water Conservation & Drainage District

BEFORE THE ARIZONA CORPORATION COMMISSION

COMMISSIONERS

DOUG LITTLE, Chairman BOB STUMP BOB BURNS ANDY TOBIN TOM FORESE Arizona Corporation Commission

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IN THE MATTER OF THE
APPLICATION OF ARIZONA PUBLIC
SERVICE COMPANY FOR A HEARING
TO DETERMINE THE FAIR VALUE OF
THE UTILITY PROPERTY OF THE
COMPANY FOR RATEMAKING
PURPOSES, TO FIX A JUST AND
REASONABLE RATE OF RETURN
THEREON, TO APPROVE RATE
SCHEDULES DESIGNED TO DEVELOP
SUCH RETURN

IN THE MATTER OF FUEL AND PURCHASED POWER PROCUREMENT AUDITS FOR ARIZONA PUBLIC SERVICE Docket No. E-01345A-16-0036

Docket No. E-01345A-16-0123

NOTICE OF FILING DIRECT TESTIMONY OF JAMES D. DOWNING

Electrical District Number Eight and McMullen Valley Water Conservation & Drainage District (hereinafter collectively referred to as "ED8/McMullen"), through its undersigned counsel, hereby provides notice that it has this day filed the attached direct testimony of James D. Downing.

DATED this 2 day of December, 2016.

MOYES SELLERS & HENDRICKS

Jay Imya

Jason Y. Moyes Jay I. Moyes

Attorneys for Electrical District Number Eight and McMullen Valley Water Conservation & Drainage District E-mail: jimoyes@law-msh.com

jasonmoyes@law-msh.com jim@harcuvar.com

ORIGINAL and 15 COPIES of the foregoing filed this

Original, 2016, with:

Docket Control Arizona Corporation Commission 1200 West Washington Phoenix, Arizona 85007

COPIES of the foregoing mailed this day of Decrupy, 2016 to:

Tom Broderick, Director Utilities Division Arizona Corporation Commission 1200 W. Washington Phoenix, AZ 85007

Janice Alward, Chief Counsel Legal Division Arizona Corporation Commission 1200 W. Washington Phoenix, AZ 85007

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Dwight Nodes
Arizona Corporation Commission
Hearing Division
1200 W. Washington
Phoenix, AZ 85007

Patricia Ferre P O Box 433 Payson, AZ 85547

COPIES of the foregoing Electronically mailed this day of <u>December</u> 2016, to:

All Parties of Record.

Luky Kneggy

DIRECT TESTIMONY OF JAMES D. DOWNING ON BEHALF OF ELECTRICAL DISTRICT NUMBER EIGHT AND MCMULLEN VALLEY WATER CONSERVATION & DRAINAGE DISTRICT

No. E-01345A-16-0036 and E-01345A-16-0123

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I. INTRODUCTION

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PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION. Q:

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My name is James D. Downing. My business address is 66768 Hwy 60, Salome, AZ A: 85354. I am a licensed Professional Engineer.

I have over 29 years of experience working with APS and other utilities in the areas

of rate design and cost calculations for transmission, distribution, ancillary services,

line extensions, and wholesale power and energy sales. During this time I have

helped design electricity rates for municipal and agricultural districts, including the

two entities I am representing today. I have also provided engineering services for

residential, commercial, and industrial developments that APS serves as retail

customers—particularly regarding the extension of APS' delivery system to these

developments. My Statement of Qualifications is attached to this direct testimony.

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A:

WHAT IS YOUR PROFESSIONAL BACKGROUND? Q:

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PLEASE EXPLAIN THE PROFESSIONAL CAPACITY IN WHICH YOU Q: ARE PROVIDING TESTIMONY IN THIS CASE.

19 I am President of The Harcuvar Company ("Harcuvarco"), an engineering, A: consulting and management company. Harcuvarco provides contract management and administrative services to Electrical District Number Eight located in Maricopa and Yuma Counties, Arizona, and McMullen Valley Water Conservation & Drainage District located in La Paz County, Arizona. Under Harcuvarco's contract I serve as Administrator for those two districts, which have jointly intervened in this proceeding and are collectively identified by procedural order for convenience as

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"ED8/McMullen".

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Q: HAVE YOU TESTIFIED IN ANY OTHER PROCEEDINGS BEFORE THE ARIZONA CORPORATION COMMISSION ("ACC")?

A: Yes, I have testified in the past on behalf of private water companies.

PLEASE DESCRIBE ANY OTHER INTERESTS YOU HAVE IN THIS Q: CASE?

A: I am personally interested as a residential retail customer of Arizona Public Service Company ("APS"); however, I have not personally intervened in this proceeding.

II. **SUMMARY**

Q: WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A: The purpose of my testimony is to present in a concise and summary form, using depictive graphs, certain analyses of basic data reflecting an overview of key changes in the economic results of APS' electric business activity for the subject period of 2004 through and including 2015, the test year in this case. I summarize a number of key data points, calculate several key ratios between certain key data, and quantify the changes and trends in those data points and ratios over those years. My summary, "down to basics" analyses disclose what should be self-evident concerns regarding those changes in key ratios, which ought to be troubling to APS ratepayers and, more directly, troubling to the Arizona Corporation Commissioners and their staff.

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III.	CHANGES IN CERTAIN KEY DATA AND RATIOS REFLECT TRENDS THAT
	SHOULD CAUSE REGULATORS CONCERN ABOUT INCREASES IN APS'
	RATE BASE AND REVENUE REQUIREMENTS.

Q: WHAT ARE THE SOURCES OF THE DATA POINTS RELIED UPON AND PRESENTED IN YOUR ANALYSES?

A: The Annual Statistical Reports published on APS' parent company, Pinnacle West Capital Corporation's, website:

www.pinnaclewest.com/investors/reports/annual-statistical-report.aspx

- Q: PLEASE PRESENT YOUR POINTS OF DATA AND ANALYSES, USING THE **ACCOMPANYING SUPPORTING** GRAPHS, WHICH YOU CONSIDER MOST RELEVANT TO AN OBJECTIVE OVERVIEW OF THE CHANGES IN APS' ECONOMIC RESULTS IN RECENT YEARS.
 - 1. Let's look first at Graph 1 (attached) which depicts APS' retail revenue dollars per megawatt hour ("mwh") sold, for years 2004 through 2015. During that time ("the subject period") APS' total retail revenue per mwh of sales has increased from \$77.48 per mwh to \$117.57 per mwh – a compound annual growth rate ("CAGR") of 3.86%.

Revenue requirement ("RR") can be expressed as the product of equity ("Eq") times return on equity ("ROE"), plus expenses ("E"), or ... RR = $[Eq \times ROE] + E$. Here, Eq is APS' published stockholder's equity;

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and ROE is APS' published after-tax net income ("NI") divided by Eq, or... $ROE = NI \div Eq$. For the subject period, ROE has averaged 8.27% per year. Eq has averaged 40% of APS' depreciated utility plant ("DUP").

- 2. Graph 2 depicts APS' peak demand ("PD") during the subject period. Since 2008, PD *decreased* from 7,277 megawatts ("mw") to 7,031 mw.
- 3. Graph 3 depicts APS' retail sales ("RS") per year during the subject period, showing a CAGR of 0.89% for the entire period. But, since 2007, RS has *decreased* from 29,171 gigawatt hours ("gwh") to 27,950 gwh.
- 4. From Graph 4 we see that APS' depreciated utility plant ("DUP"), has *increased* during the subject period from \$6,258,358,000 to \$11,804,976,000 -- a CAGR of 5.94%.
- 5. Graph 5 shows that during the subject period APS' annual capital expenditures ("CapEx") have increased from \$666,717,000 to \$1,072,053,000 -- a CAGR of 4.41%.
- 6. Graph 6 depicts that APS' depreciated utility plant per mwh of retail sales has grown during the subject period from \$246.85 per mwh to \$422.35 per mwh -- a CAGR of 5.0%.

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depreciated utility plant growth 7. Graph 7 shows APS' proportionate to peak demand. DUP + PD has grown during the subject period from \$1,002.17 per kw to \$1,678.99 per kw of peak demand – a CAGR of 4.80%.

- 8. Graph 8 tracks the increase in APS stockholders' equity -Eq during the subject period, growing from \$2,503,343,000 to \$4,679,254,000, for a CAGR of 5.85%. This has resulted in the growth of stockholders' equity proportionate to APS' peak demand, Eq \div PD, from \$401.00 per kw to \$666.00 per kw – for a CAGR of 4.72%.
- 9. Graph 9 depicts APS' net income growth during the subject period proportionate to peak demand, NI ÷ PD, from \$31.97 per kw to \$64.04 per kw - for a CAGR of 6.52%.
- 10. Graph 10 charts APS' annual net income growth proportionate to shareholders' equity, NI ÷ Eq, which has increased from 7.97% to 9.62% -- a CAGR of 1.72%.
- Revisiting Graph 5, the growth in APS' capital expenditures can 11. be separated into material costs, labor costs, equipment costs and construction overhead. The National Estimators Guide is a nationally published standard industry guide relied upon by key construction estimating databases. It shows that, on the average, construction

overhead is charged at 17.5% of the combined material, labor and equipment costs of a project. I have had extensive experience dealing with APS' construction projects and costs. In those dealings, APS personnel are consistently unwilling, as a matter of company policy, to disclose APS' construction costs, and more especially the construction overhead percentage of total construction charges. On December 19, 2016, APS responded to ED8/McMullen's Second Set of Data Requests asking for a breakdown of APS' construction costs. And while APS did provide some general answers, I believe the Commission and Staff need to take a much closer and detailed look at the various components that make up APS' construction overhead. Based on my experience and making rational assumptions about APS' buying leverage as a major bulk purchaser of material and equipment, and calculating from the total job costs charged by APS for numerous line extension and other projects, it is my reasoned estimate that APS' construction overhead charges are about 45%, or 2.57 times that of the average electrical contractor. That differential translates into the addition to CapEx of significant dollars that become rate base, instead of merely expenses on which APS earns no return. In the context of a rate case, APS' inflated CapEx overhead charges result in its rate base, stockholders' equity, and revenue requirement being unduly increased.

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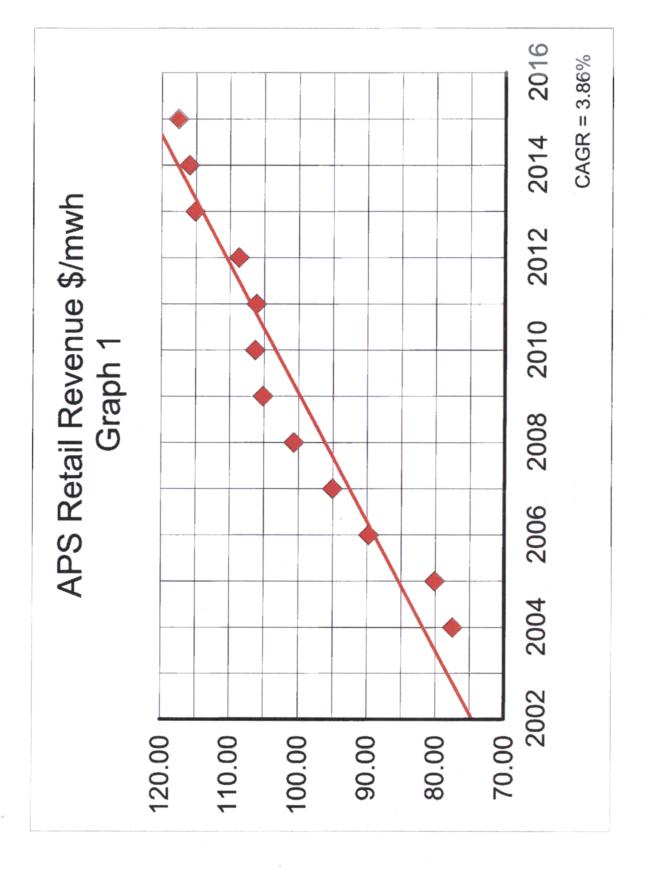
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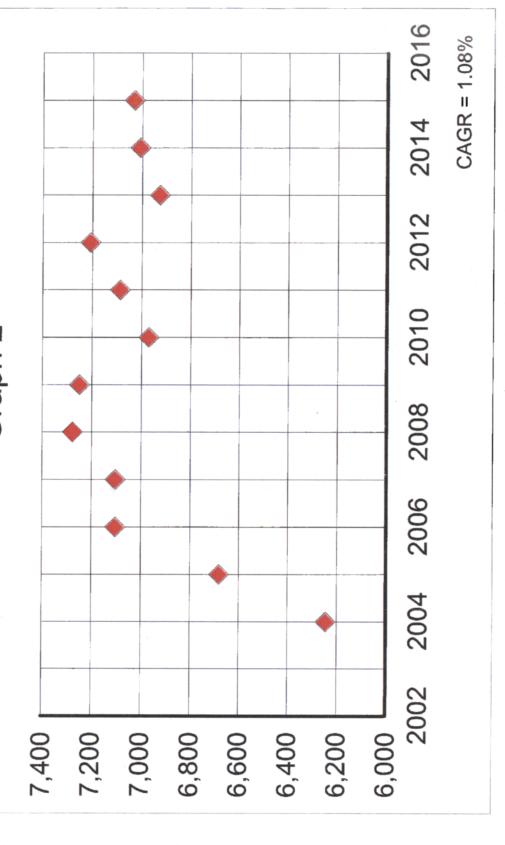
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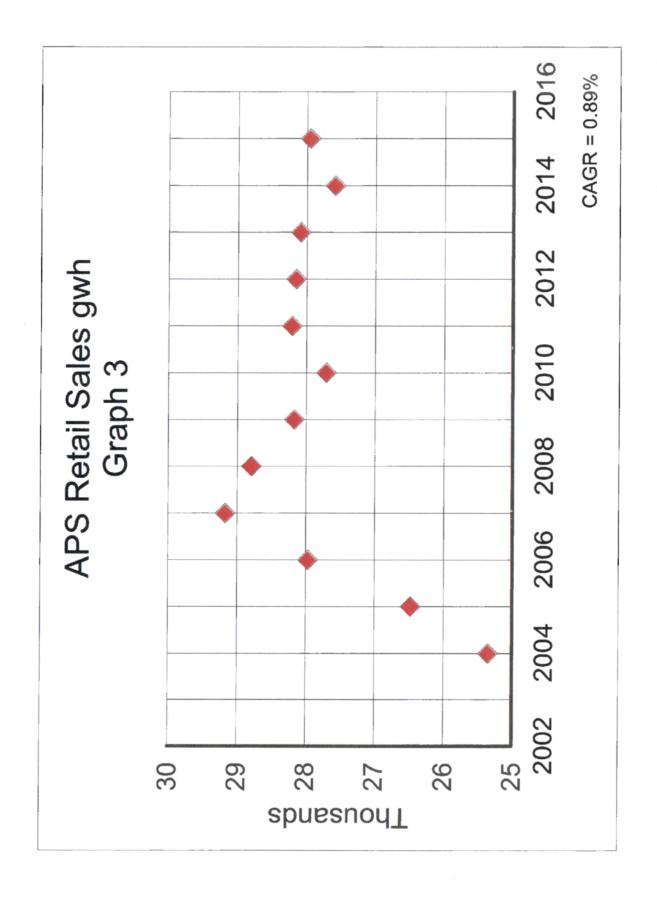
IV. CONCLUSION

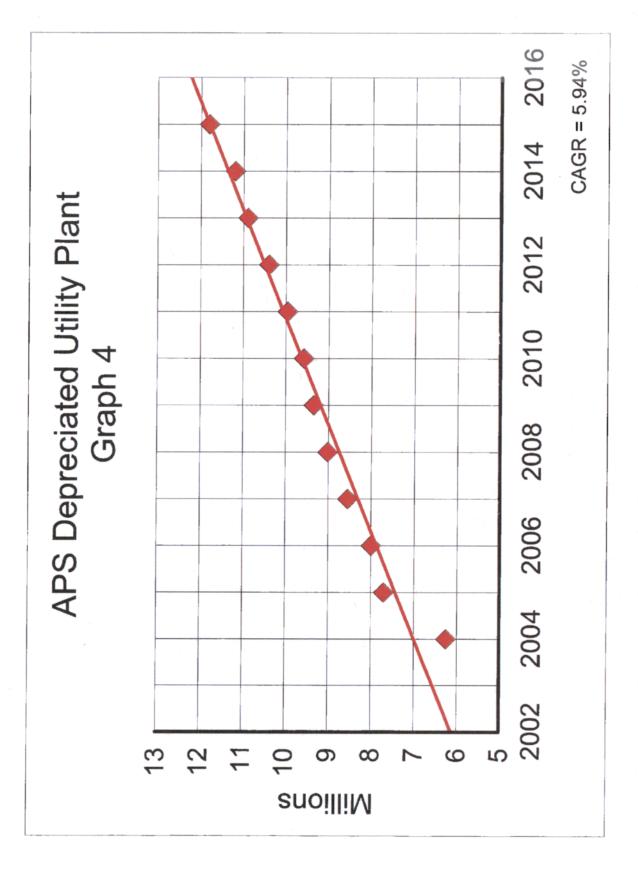
APS should be required to disclose in more detail its construction costs, particularly construction overhead charges as additions to capital expenditures. The ACC should be very concerned about the continuing growth in APS' plant and rate base notwithstanding declining demand and sales.

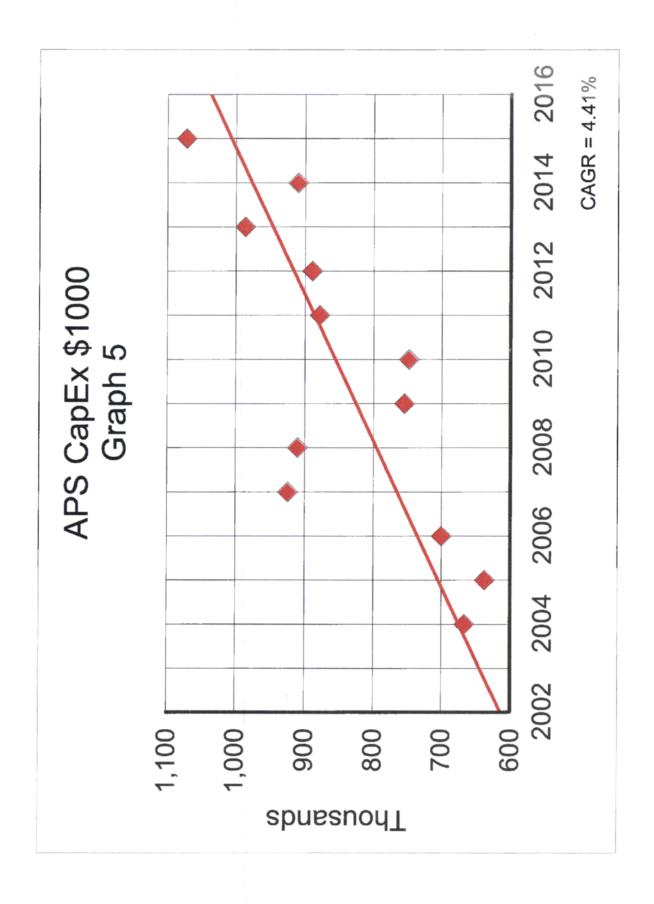


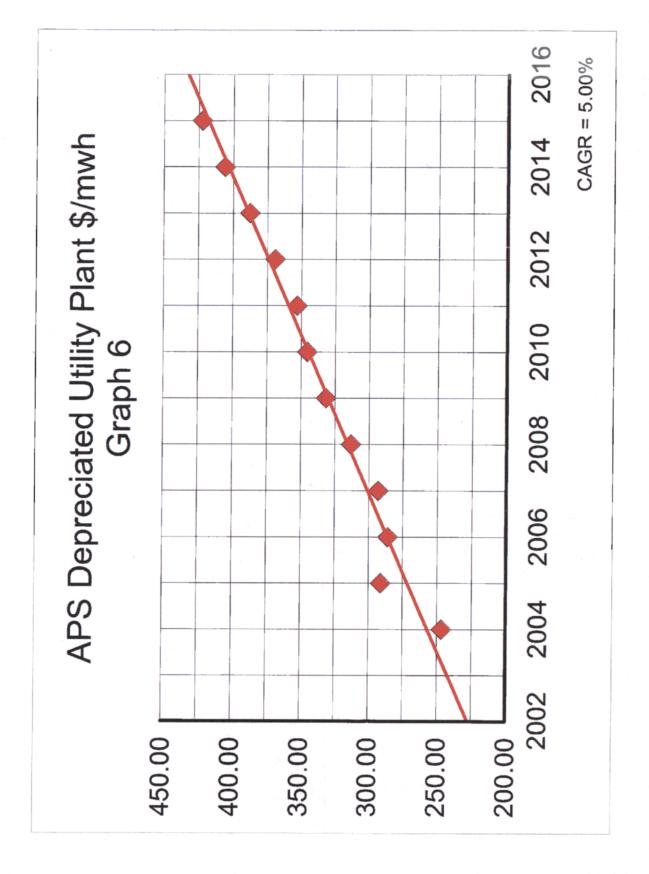
APS Peak Demand mw Graph 2



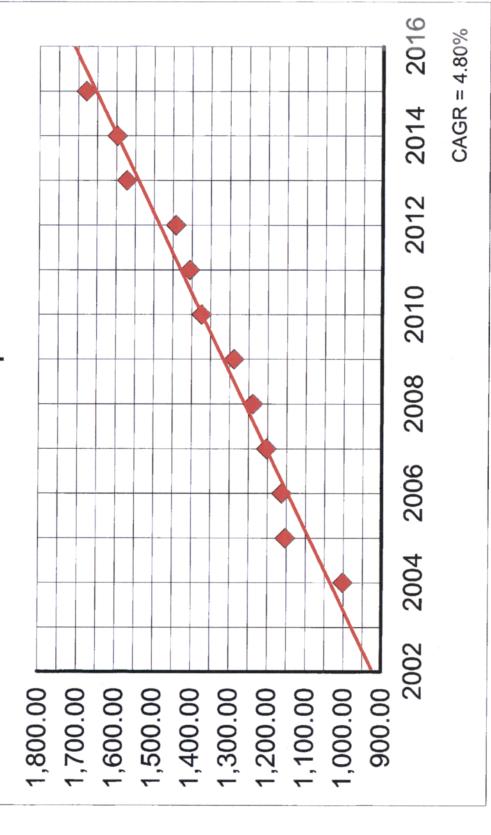


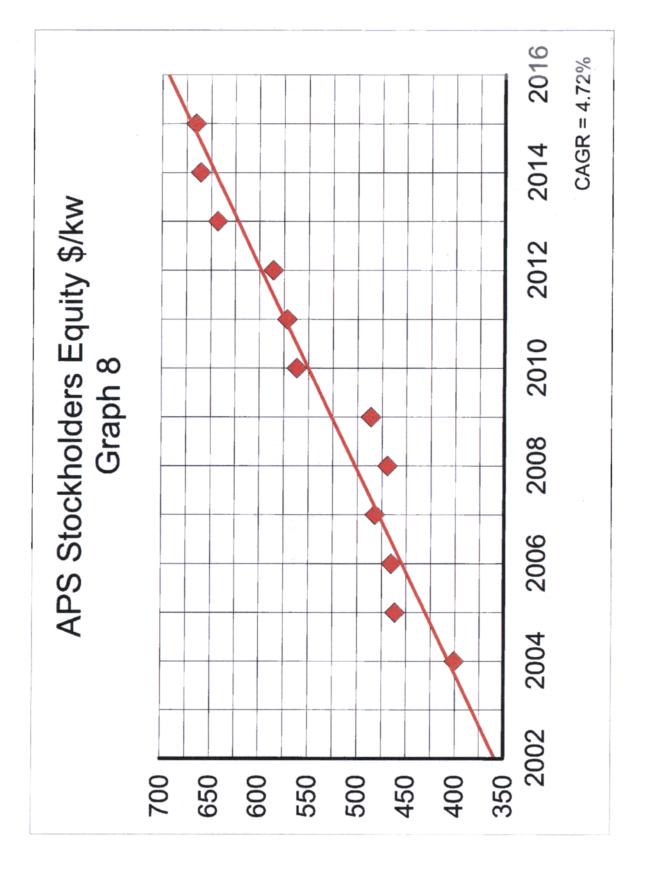


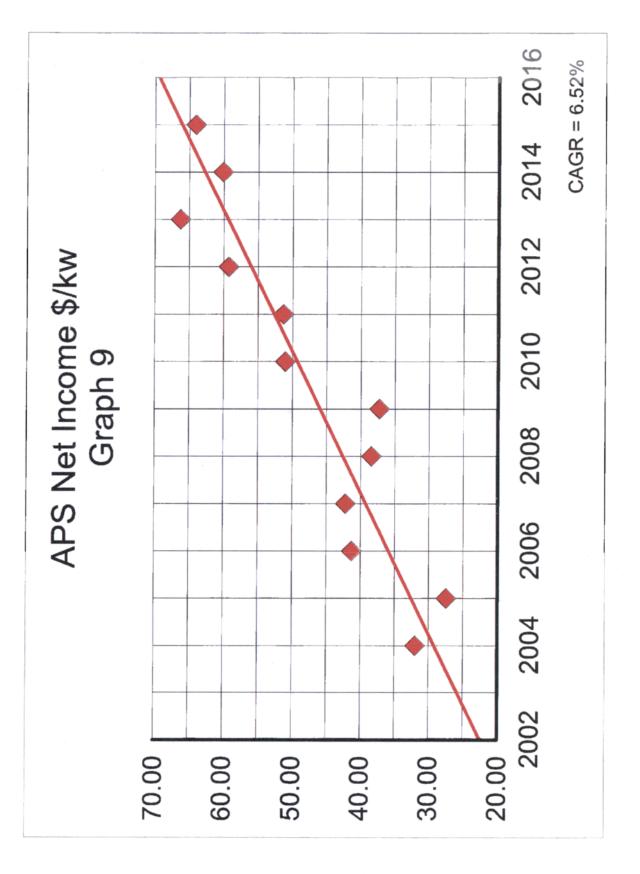


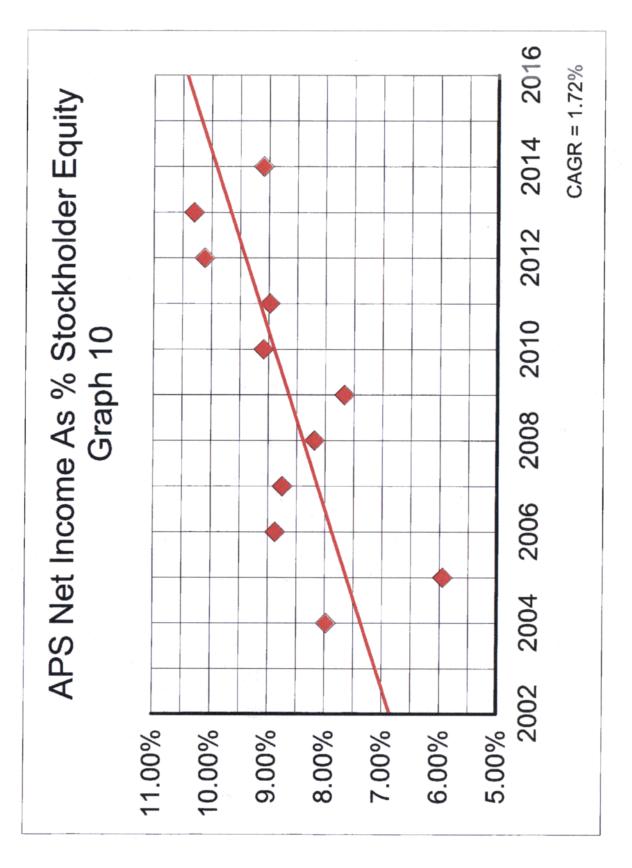


APS Depreciated Utility Plant \$/kw Graph 7









STATEMENT OF QUALIFICATIONS JAMES D. DOWNING, P.E.

Education

Bachelor of Science Degree in Engineering - Mississippi State University

Professional Background

President of The Harcuvar Co., an Arizona C corporation organized in 1987. The Harcuvar Co. provides engineering, management and related services to its clients.

The Harcuvar Co. Manages Electrical District Number Eight (ED8) and the McMullen Valley Water Conservation & Drainage District (MVWCDD) under contract.

Since 1987, ED8 and MVWCDD have had contracts with APS under which APS provides transmission services, ancillary services, distribution services, line extensions of APS' distribution system to serve new District loads, and the sale of wholesale power and energy.

For 29 years, James D. Downing, P.E. has:

- (1) Worked with APS in the areas of transmission costs, ancillary service costs, distribution costs, line extension costs and wholesale power and energy costs;
- (2) Designed electricity rates for ED8 and MVWCDD;
- (3) Provided engineering services for residential, commercial and industrial developments that are APS retail customers, including the extension of APS' system to these developments.

James D. Downing, P.E. has testified before the Commission in rate cases for two water utilities.